

patCore version 4.5  
Copyright (c) 1993 - 2000 Computer 101.

OM protein - protein search, using sw model

Run on: March 14, 2002, 17:25:19 ; Search time 1:18 Seconds  
(without alignments)  
11,952 Million cell updates/sec

Title: US-09-786-009-9

Perfect score: 42

Sequence: 1 CDEPKS 7

Scoring table:

BLOSUM62

Gapop 100, Gapext 0.5

Search: 21252 seqs, 22503292 residues

Total number of hits satisfying chosen parameters: 21252

Minimum DB seq length: 6

Maximum DB seq length: 20000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database 1

Issued\_Patents\_AA\*

1: /cgn-6/patdata/1/seq/7A\_1MB.pat  
2: /cgn-6/patdata/1/seq/7A\_1MB.pat  
3: /cgn-6/patdata/1/seq/7A\_1MB.pat  
4: /cgn-6/patdata/1/seq/7A\_1MB.pat  
5: /cgn-6/patdata/1/seq/7A\_1MB.pat  
6: /cgn-6/patdata/1/seq/7A\_1MB.pat

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Match length	ID	Description
1	38	90.5	410	US-08-605-284B-14	Sequence 14, Appl
2	36	90.5	200	US-08-605-284B-7	Sequence 7, Appl
3	35	83.3	310	US-08-605-284B-10	Sequence 10, Appl
4	35	83.3	592	US-08-605-284B-10	Sequence 2, Appl
5	34	78.6	664	US-08-421-651-6	Sequence 6, Appl
6	33	78.6	794	US-08-474-077C-4	Sequence 4, Appl
7	33	78.6	794	US-08-895-590-4	Sequence 4, Appl
8	33	78.6	1872	US-08-415-675B-4	Sequence 4, Appl
9	33	78.6	1871	US-08-415-675B-4	Sequence 4, Appl
10	33	78.6	1871	US-08-415-675B-4	Sequence 4, Appl
11	33	78.6	2161	US-07-745-284A-2	Sequence 2, Appl
12	33	78.6	2161	US-08-455-543A-49	Sequence 49, Appl
13	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
14	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
15	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
16	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
17	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
18	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
19	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
20	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
21	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
22	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
23	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
24	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
25	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
26	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
27	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
28	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
29	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
30	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
31	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
32	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
33	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
34	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
35	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
36	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
37	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
38	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
39	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
40	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
41	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
42	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
43	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
44	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl
45	33	78.6	2161	US-08-455-543A-51	Sequence 51, Appl

28	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
29	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
30	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
31	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
32	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
33	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
34	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
35	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
36	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
37	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
38	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
39	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
40	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
41	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
42	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
43	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
44	32	76.2	264	US-09-786-009-9	Sequence 2, Appl
45	32	76.2	264	US-09-786-009-9	Sequence 2, Appl

ALL SUMM

RESULT 1  
US-08-605-284B-14  
Sequence 14, Application US/08605284B  
Patent No. 6060271  
GENERAL INFORMATION:  
APPLICANT: WILMINK, JOSE  
INVENTOR: WILMINK, JOSE  
TITLE OF INVENTION: VOLTAGE GATED SODIUM CHANNELS FROM HUMAN PERIPHERAL NERVE  
CLASSIFICATION: C12N 1/21, C12N 1/22, C12N 1/23, C12N 1/24, C12N 1/25, C12N 1/26, C12N 1/27, C12N 1/28, C12N 1/29, C12N 1/30, C12N 1/31, C12N 1/32, C12N 1/33, C12N 1/34, C12N 1/35, C12N 1/36, C12N 1/37, C12N 1/38, C12N 1/39, C12N 1/40, C12N 1/41, C12N 1/42, C12N 1/43, C12N 1/44, C12N 1/45, C12N 1/46, C12N 1/47, C12N 1/48, C12N 1/49, C12N 1/50, C12N 1/51, C12N 1/52, C12N 1/53, C12N 1/54, C12N 1/55, C12N 1/56, C12N 1/57, C12N 1/58, C12N 1/59, C12N 1/60, C12N 1/61, C12N 1/62, C12N 1/63, C12N 1/64, C12N 1/65, C12N 1/66, C12N 1/67, C12N 1/68, C12N 1/69, C12N 1/70, C12N 1/71, C12N 1/72, C12N 1/73, C12N 1/74, C12N 1/75, C12N 1/76, C12N 1/77, C12N 1/78, C12N 1/79, C12N 1/80, C12N 1/81, C12N 1/82, C12N 1/83, C12N 1/84, C12N 1/85, C12N 1/86, C12N 1/87, C12N 1/88, C12N 1/89, C12N 1/90, C12N 1/91, C12N 1/92, C12N 1/93, C12N 1/94, C12N 1/95, C12N 1/96, C12N 1/97, C12N 1/98, C12N 1/99, C12N 1/100, C12N 1/101, C12N 1/102, C12N 1/103, C12N 1/104, C12N 1/105, C12N 1/106, C12N 1/107, C12N 1/108, C12N 1/109, C12N 1/110, C12N 1/111, C12N 1/112, C12N 1/113, C12N 1/114, C12N 1/115, C12N 1/116, C12N 1/117, C12N 1/118, C12N 1/119, C12N 1/120, C12N 1/121, C12N 1/122, C12N 1/123, C12N 1/124, C12N 1/125, C12N 1/126, C12N 1/127, C12N 1/128, C12N 1/129, C12N 1/130, C12N 1/131, C12N 1/132, C12N 1/133, C12N 1/134, C12N 1/135, C12N 1/136, C12N 1/137, C12N 1/138, C12N 1/139, C12N 1/140, C12N 1/141, C12N 1/142, C12N 1/143, C12N 1/144, C12N 1/145, C12N 1/146, C12N 1/147, C12N 1/148, C12N 1/149, C12N 1/150, C12N 1/151, C12N 1/152, C12N 1/153, C12N 1/154, C12N 1/155, C12N 1/156, C12N 1/157, C12N 1/158, C12N 1/159, C12N 1/160, C12N 1/161, C12N 1/162, C12N 1/163, C12N 1/164, C12N 1/165, C12N 1/166, C12N 1/167, C12N 1/168, C12N 1/169, C12N 1/170, C12N 1/171, C12N 1/172, C12N 1/173, C12N 1/174, C12N 1/175, C12N 1/176, C12N 1/177, C12N 1/178, C12N 1/179, C12N 1/180, C12N 1/181, C12N 1/182, C12N 1/183, C12N 1/184, C12N 1/185, C12N 1/186, C12N 1/187, C12N 1/188, C12N 1/189, C12N 1/190, C12N 1/191, C12N 1/192, C12N 1/193, C12N 1/194, C12N 1/195, C12N 1/196, C12N 1/197, C12N 1/198, C12N 1/199, C12N 1/200, C12N 1/201, C12N 1/202, C12N 1/203, C12N 1/204, C12N 1/205, C12N 1/206, C12N 1/207, C12N 1/208, C12N 1/209, C12N 1/210, C12N 1/211, C12N 1/212, C12N 1/213, C12N 1/214, C12N 1/215, C12N 1/216, C12N 1/217, C12N 1/218, C12N 1/219, C12N 1/220, C12N 1/221, C12N 1/222, C12N 1/223, C12N 1/224, C12N 1/225, C12N 1/226, C12N 1/227, C12N 1/228, C12N 1/229, C12N 1/230, C12N 1/231, C12N 1/232, C12N 1/233, C12N 1/234, C12N 1/235, C12N 1/236, C12N 1/237, C12N 1/238, C12N 1/239, C12N 1/240, C12N 1/241, C12N 1/242, C12N 1/243, C12N 1/244, C12N 1/245, C12N 1/246, C12N 1/247, C12N 1/248, C12N 1/249, C12N 1/250, C12N 1/251, C12N 1/252, C12N 1/253, C12N 1/254, C12N 1/255, C12N 1/256, C12N 1/257, C12N 1/258, C12N 1/259, C12N 1/260, C12N 1/261, C12N 1/262, C12N 1/263, C12N 1/264, C12N 1/265, C12N 1/266, C12N 1/267, C12N 1/268, C12N 1/269, C12N 1/270, C12N 1/271, C12N 1/272, C12N 1/273, C12N 1/274, C12N 1/275, C12N 1/276, C12N 1/277, C12N 1/278, C12N 1/279, C12N 1/280, C12N 1/281, C12N 1/282, C12N 1/283, C12N 1/284, C12N 1/285, C12N 1/286, C12N 1/287, C12N 1/288, C12N 1/289, C12N 1/290, C12N 1/291, C12N 1/292, C12N 1/293, C12N 1/294, C12N 1/295, C12N 1/296, C12N 1/297, C12N 1/298, C12N 1/299, C12N 1/300, C12N 1/301, C12N 1/302, C12N 1/303, C12N 1/304, C12N 1/305, C12N 1/306, C12N 1/307, C12N 1/308, C12N 1/309, C12N 1/310, C12N 1/311, C12N 1/312, C12N 1/313, C12N 1/314, C12N 1/315, C12N 1/316, C12N 1/317, C12N 1/318, C12N 1/319, C12N 1/320, C12N 1/321, C12N 1/322, C12N 1/323, C12N 1/324, C12N 1/325, C12N 1/326, C12N 1/327, C12N 1/328, C12N 1/329, C12N 1/330, C12N 1/331, C12N 1/332, C12N 1/333, C12N 1/334, C12N 1/335, C12N 1/336, C12N 1/337, C12N 1/338, C12N 1/339, C12N 1/340, C12N 1/341, C12N 1/342, C12N 1/343, C12N 1/344, C12N 1/345, C12N 1/346, C12N 1/347, C12N 1/348, C12N 1/349, C12N 1/350, C12N 1/351, C12N 1/352, C12N 1/353, C12N 1/354, C12N 1/355, C12N 1/356, C12N 1/357, C12N 1/358, C12N 1/359, C12N 1/360, C12N 1/361, C12N 1/362, C12N 1/363, C12N 1/364, C12N 1/365, C12N 1/366, C12N 1/367, C12N 1/368, C12N 1/369, C12N 1/370, C12N 1/371, C12N 1/372, C12N 1/373, C12N 1/374, C12N 1/375, C12N 1/376, C12N 1/377, C12N 1/378, C12N 1/379, C12N 1/380, C12N 1/381, C12N 1/382, C12N 1/383, C12N 1/384, C12N 1/385, C12N 1/386, C12N 1/387, C12N 1/388, C12N 1/389, C12N 1/390, C12N 1/391, C12N 1/392, C12N 1/393, C12N 1/394, C12N 1/395, C12N 1/396, C12N 1/397, C12N 1/398, C12N 1/399, C12N 1/400, C12N 1/401, C12N 1/402, C12N 1/403, C12N 1/404, C12N 1/405, C12N 1/406, C12N 1/407, C12N 1/408, C12N 1/409, C12N 1/410, C12N 1/411, C12N 1/412, C12N 1/413, C12N 1/414, C12N 1/415, C12N 1/416, C12N 1/417, C12N 1/418, C12N 1/419, C12N 1/420, C12N 1/421, C12N 1/422, C12N 1/423, C12N 1/424, C12N 1/425, C12N 1/426, C12N 1/427, C12N 1/428, C12N 1/429, C12N 1/430, C12N 1/431, C12N 1/432, C12N 1/433, C12N 1/434, C12N 1/435, C12N 1/436, C12N 1/437, C12N 1/438, C12N 1/439, C12N 1/440, C12N 1/441, C12N 1/442, C12N 1/443, C12N 1/444, C12N 1/445, C12N 1/446, C12N 1/447, C12N 1/448, C12N 1/449, C12N 1/450, C12N 1/451, C12N 1/452, C12N 1/453, C12N 1/454, C12N 1/455, C12N 1/456, C12N 1/457, C12N 1/458, C12N 1/459, C12N 1/460, C12N 1/461, C12N 1/462, C12N 1/463, C12N 1/464, C12N 1/465, C12N 1/466, C12N 1/467, C12N 1/468, C12N 1/469, C12N 1/470, C12N 1/471, C12N 1/472, C12N 1/473, C12N 1/474, C12N 1/475, C12N 1/476, C12N 1/477, C12N 1/478, C12N 1/479, C12N 1/480, C12N 1/481, C12N 1/482, C12N 1/483, C12N 1/484, C12N 1/485, C12N 1/486, C12N 1/487, C12N 1/488, C12N 1/489, C12N 1/490, C12N 1/491, C12N 1/492, C12N 1/493, C12N 1/494, C12N 1/495, C12N 1/496, C12N 1/497, C12N 1/498, C12N 1/499, C12N 1/500, C12N 1/501, C12N 1/502, C12N 1/503, C12N 1/504, C12N 1/505, C12N 1/506, C12N 1/507, C12N 1/508, C12N 1/509, C12N 1/510, C12N 1/511, C12N 1/512, C12N 1/513, C12N 1/514, C12N 1/515, C12N 1/516, C12N 1/517, C12N 1/518, C12N 1/519, C12N 1/520, C12N 1/521, C12N 1/522, C12N 1/523, C12N 1/524, C12N 1/525, C12N 1/526, C12N 1/527, C12N 1/528, C12N 1/529, C12N 1/530, C12N 1/531, C12N 1/532, C12N 1/533, C12N 1/534, C12N 1/535, C12N 1/536, C12N 1/537, C12N 1/538, C12N 1/539, C12N 1/540, C12N 1/541, C12N 1/542, C12N 1/543, C12N 1/544, C12N 1/545, C12N 1/546, C12N 1/547, C12N 1/548, C12N 1/549, C12N 1/550, C12N 1/551, C12N 1/552, C12N 1/553, C12N 1/554, C12N 1/555, C12N 1/556, C12N 1/557, C12N 1/558, C12N 1/559, C12N 1/560, C12N 1/561, C12N 1/562, C12N 1/563, C12N 1/564, C12N 1/565, C12N 1/566, C12N 1/567, C12N 1/568, C12N 1/569, C12N 1/570, C12N 1/571, C12N 1/572, C12N 1/573, C12N 1/574, C12N 1/575, C12N 1/576, C12N 1/577, C12N 1/578, C12N 1/579, C12N 1/580, C12N 1/581, C12N 1/582, C12N 1/583, C12N 1/584, C12N 1/585, C12N 1/586, C12N 1/587, C12N 1/588, C12N 1/589, C12N 1/590, C12N 1/591, C12N 1/592, C12N 1/593, C12N 1/594, C12N 1/595, C12N 1/596, C12N 1/597, C12N 1/598, C12N 1/599, C12N 1/600, C12N 1/601, C12N 1/602, C12N 1/603, C12N 1/604, C12N 1/605, C12N 1/606, C12N 1/607, C12N 1/608, C12N 1/609, C12N 1/610, C12N 1/611, C12N 1/612, C12N 1/613, C12N 1/614, C12N 1/615, C12N 1/616, C12N 1/617, C12N 1/618, C12N 1/619, C12N 1/620



FILING DATE: 12 APR 1997  
 ATTORNEY/AGENT INFORMATION:  
 NAME: PRESTIA, PAUL F  
 REGISTRATION NUMBER: 23,031  
 REFERENCE/CHECK NUMBER: CH 71261  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 610-407 0700  
 TELEFAX: 610-407 0701  
 TELEX: 846169  
 INFORMATION FOR SEQ 1: 592  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 592 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-09-786-009-9

Query Match: 71.4% Score 45, 48 2, Length 592  
 Best Local Similarity: 71.4% Prot. No. 411  
 Matches: 52 Conserved: 27 Mismatches: 02 Indels: 02 Gaps: 02

QY 1 CPERKS 7  
 ID 213 CPERKA 217

RESULT 1  
 US-08-421-661-6  
 Sequence 6, Application US/08421661  
 Patent No. 5807993  
 GENERAL INFORMATION:  
 APPLICANT: French Cyathia K  
 APPLICANT: Yamanouchi Karen K  
 APPLICANT: Choshi, Hiroko M  
 APPLICANT: Akiyama, Norihisa T  
 TITLE OF INVENTION: Antigen Related to Inflammatory Diseases  
 NUMBER OF SEQUENCES: 4  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: David J. O'Donoghue  
 STREET: 2029 Country Park East, Suite 2000  
 CITY: Los Angeles  
 STATE: California  
 COUNTRY: U.S.  
 ZIP: 90067  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.00  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: 08-421 661  
 FILING DATE:  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: O'Donoghue, David J  
 REGISTRATION NUMBER: 29,421  
 REFERENCE/CHECK NUMBER: 109 067  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 310-786 5000  
 TELEFAX: 310-271-1297  
 INFORMATION FOR SEQ 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 664 amino acids  
 TYPE: amino acid  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-421-661-6

Query Match: 78.6% Score 44, 48 1, Length 664  
 Best Local Similarity: 78.6% Prot. No. 862

Matches: 52 Conserved: 27 Mismatches: 02 Indels: 02 Gaps: 02  
 QY 1 CPERKS 6  
 ID 586 CPERKA 591

RESULT 6  
 US-08-474-0770-4  
 Sequence 7, Application US/084740770  
 Patent No. 6027912  
 GENERAL INFORMATION:  
 APPLICANT: Bion, Julian M  
 APPLICANT: Zheutzi, Wei  
 APPLICANT: Dubaldi, Maurice Marcel Fern  
 TITLE OF INVENTION: Genes Encoding the Adult Stage A-Phase  
 NUMBER OF SEQUENCES: 57  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Bion, Julian  
 STREET: 499 Lincoln Street  
 CITY: Alexandria  
 STATE: VA  
 COUNTRY: USA  
 ZIP: 22304 1107  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC DOS/MS DOS  
 SOFTWARE: Patent In Release #1.0, Version #1.00  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: 08-474 0770  
 FILING DATE: 19 JAN 1999  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Bion, Julian M  
 REGISTRATION NUMBER: 49 000  
 REFERENCE/CHECK NUMBER: 1,255 261  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 703 646-6620  
 TELEFAX: 703 646-2121  
 INFORMATION FOR SEQ 6:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 794 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-474-0770-4

Query Match: 77.6% Score 44, 48 2, Length 794  
 Best Local Similarity: 77.6% Prot. No. 862  
 Matches: 52 Conserved: 27 Mismatches: 02 Indels: 02 Gaps: 02  
 QY 1 CPERKS 6  
 ID 586 CPERKA 591

RESULT 7  
 US-08-895-640-4  
 Sequence 4, Application US/08895640  
 Patent No. 620 410  
 GENERAL INFORMATION:  
 APPLICANT: Hall, Julia M  
 APPLICANT: Bion, Julian  
 APPLICANT: Zheutzi, Wei  
 APPLICANT: Dubaldi, Maurice Marcel Fern  
 TITLE OF INVENTION: Genes Encoding the Adult Stage A-Phase  
 NUMBER OF SEQUENCES: 101  
 CORRESPONDENCE ADDRESS:

```

1 ADDRESS: JONES, DANNY, SWEET & MATTHEW, LTD
2 STREET: 4500 UNION STREET
3 CITY: ALBUQUERQUE
4 STATE: NM
5 COUNTRY: USA
6 ZIP: 87114-2107
7 COMPUTER RELEVABLE ITEM:
8 MEDIUM TYPE: floppy disk
9 OPERATING SYSTEM: IBM PC compatible
10 SOFTWARE: Pattern Recognition #1.0, Version #1.00
11 CURRENT APPLICATION DATA:
12 APPLICATION NUMBER: US/88/095,190
13 FILING DATE:
14 CLASSIFICATION:
15 PRIOR APPLICATION DATA:
16 APPLICATION NUMBER: US/88/074,800
17 FILING DATE: 19 JAN 1990
18 ATORNEY/AGENT INFORMATION:
19 NAME: McLaughlin, Malcolm M.
20 REGISTRATION NUMBER: 49,488
21 REFERENCE/BOOKLET NUMBER: 0,20500,263
22 TELECOMMUNICATION INFORMATION:
23 TELEPHONE: 703,890,0020
24 TELEFAX: 703,890,2001
25 INFORMATION FOR SEQ ID NO: 4:
26 SEQUENCE CHARACTERISTICS:
27 LENGTH: 793 amino acids
28 TYPE: amino acid
29 STRANDEDNESS: single
30 TOPOLOGY: linear
31 MOLECULE TYPE: protein
32 US OR MO: 500,4
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

```

```

1 APPLICANT: ELLIS, Steven Bradley
2 APPLICANT: WILLIAMS, Mark L
3 APPLICANT: HOFFMAN, Michael Miller
4 APPLICANT: Schwartz, Arnold
5 APPLICANT: Kennedy, Robert
6 TITLE OF INVENTION: PATTERNS FOR IDENTIFICATION AND METHODS
7 NUMBER OF SEQUENCES: 4
8 CORRESPONDENCE ADDRESS:
9 ADDRESS: BROAD, MATTHEW, BULLOCK & McLAUGHLIN
10 STREET: 1660 Union Street
11 CITY: San Diego
12 STATE: CA
13 COUNTRY: USA
14 ZIP: 92101-2926
15 COMPUTER RELEVABLE ITEM:
16 MEDIUM TYPE: Diskette
17 OPERATING SYSTEM: DOS
18 SOFTWARE: FASTSP Version 1.5
19 CURRENT APPLICATION DATA:
20 APPLICATION NUMBER: US/89/074,083
21 FILING DATE: 28 SEP 1994
22 APPLICATION NUMBER: US/87/014,241
23 FILING DATE: 13 JUL 1992
24 APPLICATION NUMBER: US/87/003,751
25 FILING DATE: 08 NOV 1990
26 ATORNEY/AGENT INFORMATION:
27 NAME: Seidman, Stephanie L.
28 REGISTRATION NUMBER: 45,079
29 REFERENCE/BOOKLET NUMBER: 0,2054193
30 TELECOMMUNICATION INFORMATION:
31 TELEPHONE: 619-238-0909
32 TELEFAX: 619-238-0062
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977
978
979
980
981
982
983
984
985
986
987
988
989
990
991
992
993
994
995
996
997
998
999
1000

```

STATE: CA  
COUNTRY: USA  
ZIP: 92101-2726  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPILED: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
AFTER MATR NUMBER: 05/08/94, 057A  
FILING DATE: 07 NOV 1994  
CLASSIFICATION: 4-5  
ALTERNATIVE/AGENT INFORMATION:  
NAME: Seidman, Stephanie L.  
REGISTRATION NUMBER: 34779  
REFERENCE/AGENT NUMBER: 51828  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 2-8-0999  
TELEFAX: (619) 2-8-0062  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1873 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOL KEY: linear  
MOLECULE TYPE: protein  
FRAGMENT TYPE: internal  
ORIGIN: SOURCE:  
US-08-346-257A-7

Query Match: 76.6% Score 331 281 Length 1873  
Best Local Similarity: 63.4% Ident. 100.0%  
Matches: 57 Conserved: 0 Mismatches: 12 Indels: 0 Gaps: 0

07 1 CIPKED 6  
111 1  
DB 3438 CIPKED 1343

RESULT 11  
US-07-745-206A-2  
Sequence: 2, Affiliation: 05/07/94, 206A  
Patent No: 5429921  
GENERAL INFORMATION:  
APPLICANT: Harford, Michael  
APPLICANT: Ellis, Steven  
APPLICANT: Williams, Mark  
APPLICANT: McQuay, Ann  
TITLE OF INVENTION: Human Calcium Channel Compositions and  
TITLE OF INVENTION: Methods  
NUMBER OF SEQUENCES: 32  
CORRESPONDENCE ADDRESS:  
ADDRESS: P.O. Box 1000, Tabin & Flannery  
STREET: 135 S. LaSalle  
CITY: Chicago  
STATE: Illinois  
COUNTRY: U.S.A.  
ZIP: 60604  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPILED: IBM PC compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: 05/07/94, 206A  
FILING DATE: 07 NOV 1994  
CLASSIFICATION: 4-5  
ALTERNATIVE/AGENT INFORMATION:  
NAME: Feder, Scott A.  
REFERENCE/AGENT NUMBER: 51828  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 2-8-0999

TELEPHONE: (619) 2-8-0999  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2161 amino acids  
TYPE: AMINO ACID  
TOPOL KEY: linear  
MOLECULE TYPE: protein  
US-07-745-206A-2

Query Match: 76.6% Score 331 281 Length 2161  
Best Local Similarity: 63.4% Ident. 100.0%  
Matches: 57 Conserved: 0 Mismatches: 12 Indels: 0 Gaps: 0

07 1 CIPKED 6  
111 1  
DB 1421 CIPKED 1426

RESULT 12  
US-08-455-943A-4  
Sequence: 49, Affiliation: 05/08/94, 943A  
Patent No: 5792846  
GENERAL INFORMATION:  
APPLICANT: Harford, Michael  
APPLICANT: Ellis, Steven  
APPLICANT: Williams, Mark  
APPLICANT: McQuay, Ann  
TITLE OF INVENTION: Human Calcium Channel Compositions and  
TITLE OF INVENTION: Methods  
NUMBER OF SEQUENCES: 57  
CORRESPONDENCE ADDRESS:  
ADDRESS: P.O. Box 1000, Tabin & Flannery  
STREET: 1600 Fulton Street  
CITY: San Diego  
STATE: California  
COUNTRY: USA  
ZIP: 92101-2726  
COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPILED: IBM PC compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: 05/08/94, 943A  
FILING DATE: 07 NOV 1994  
CLASSIFICATION: 4-5  
ALTERNATIVE/AGENT INFORMATION:  
NAME: Feder, Scott A.  
REFERENCE/AGENT NUMBER: 51828  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (619) 2-8-0999

NAME: Solidman, Stephanie L.  
 REGISTRATION NUMBER: 44,779  
 REFERENCE/PROCESS NUMBER: 6062 52017  
 FIELD IDENTIFICATION INFORMATION:  
 TELEPHONE: (619)248-0062  
 TELEFAX: (619)248-0062  
 INFORMATION FOR SEE TO REG. 49:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2161 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FRAGMENT TYPE: internal  
 US OR 455 546A 49

Query Match: 78.6% Score: 43; DB 1; Length: 2161  
 Best Local Similarity: 64.8%; Prot. No. 60302;  
 Match: 5; Conservation: 0; Mismatches: 1; Indels: 0; Gaps: 0  
 11111  
 1421 79958 1426

RESULT 14  
 US OR 455 546A 51  
 Sequence: 51; Application: US/0945546A  
 Patent No.: 579946  
 GERMANY INFORMATION:  
 APPLICANT: Harbold, Michael  
 APPLICANT: Ellis, Steven  
 APPLICANT: Williams, Mark  
 APPLICANT: Feldman, David  
 APPLICANT: Weston, Ann  
 APPLICANT: Freeman, Robert  
 TITLE OF INVENTION: IRMAN CALCIUM CHANNEL COMPOSITION AND  
 NUMBER OF SEQUENCES: 57  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Brown, Martin, Butler & McTear  
 STREET: 1600 Union Street  
 CITY: San Diego  
 STATE: California  
 COUNTRY: USA  
 ZIP: 92101-2726  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 OPERATING SYSTEM: Ios  
 SOFTWARE: FASTA Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/755,546A  
 FILING DATE: May 31, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/445,405  
 FILING DATE: April 4, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/205,404  
 FILING DATE: April 10, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/205,404  
 FILING DATE: April 10, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: W 197/1309/901408  
 FILING DATE: 04 APR 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/176,899  
 FILING DATE: 04 APR 1994  
 ATORARY/ACT: 287,624,112  
 NAME: Solidman, Stephanie L.  
 REGISTRATION NUMBER: 44,779  
 REFERENCE/PROCESS NUMBER: 6062 52017  
 TELEPHONE: (619)248-0062  
 TELEFAX: (619)248-0062  
 INFORMATION FOR SEE TO REG. 49:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2161 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FRAGMENT TYPE: internal  
 US OR 455 546A 51

Query Match: 78.6% Score: 43; DB 1; Length: 2161  
 Best Local Similarity: 64.8%; Prot. No. 60302;  
 Match: 5; Conservation: 0; Mismatches: 1; Indels: 0; Gaps: 0  
 11111  
 1421 79958 1426

RESULT 14  
 US OR 455 546A 49  
 Sequence: 49; Application: US/09/755,546A  
 Patent No.: 579946  
 GERMANY INFORMATION:  
 APPLICANT: Harbold, Michael  
 APPLICANT: Ellis, Steven  
 APPLICANT: Williams, Mark  
 APPLICANT: Feldman, David  
 APPLICANT: Weston, Ann  
 APPLICANT: Freeman, Robert  
 TITLE OF INVENTION: IRMAN CALCIUM CHANNEL COMPOSITIONS AND  
 NUMBER OF SEQUENCES: 57  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Brown, Martin, Butler & McTear  
 STREET: 1600 Union Street  
 CITY: San Diego  
 STATE: California  
 COUNTRY: USA  
 ZIP: 92101-2726  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Diskette  
 OPERATING SYSTEM: Ios  
 SOFTWARE: FASTA Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/09/755,546A  
 FILING DATE: May 31, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/445,405  
 FILING DATE: April 4, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/205,404  
 FILING DATE: April 10, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/205,404  
 FILING DATE: April 10, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US/07/402,604  
 FILING DATE: May 19, 1994

FILING DATE: 20 FEB 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/603,701  
 FILING DATE: 04 APR 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: W. P. 0559,01178  
 FILING DATE: 04 APR 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/176,899  
 FILING DATE: 04 APR 1988  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Soliman, Stephanie L.  
 REGISTRATION NUMBER: 42,279  
 REFERENCE/INVENTOR NUMBER: 62516 (P519779)  
 TELEPHONE: (+1) 214 39 0999  
 TELEFAX: (+1) 214 39 0962  
 INFORMATION FOR SEQ. 1: 26 19  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2161 am no acid  
 TYPE: amino acid  
 STRANDEDNESS: S 0116  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FRAGMENT TYPE: internal  
 US-09-223-3050-49

Query Match 74.6% Score 337 PB 21 Length 2161  
 Best Local Similarity 82.4% Pctid No: 40-02  
 Matches 5: Conservative 0: Mismatches 1: Indels 0: Gaps 0:

QY 1 CDEPXD 6  
 DB 1421 CDEPXD 1426

RESULT 15  
 US-08-223-3050-51  
 Sequence 51, Application US/082233050  
 Patent No. 5851824  
 GENERAL INFORMATION:  
 APPLICANT: Harpold, Michael  
 APPLICANT: Ellis, Steven  
 APPLICANT: Williams, Mark  
 APPLICANT: Polkman, Daniel  
 APPLICANT: Moore, Ann  
 TITLE OF INVENTION: HUMAN CHANNEL CHANNEL PROTECTIONS AND  
 TITLE OF INVENTION: METHODS  
 NUMBER OF SEQUENCES: 57  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Brown, Martin, Haller & McLean  
 STREET: 1640 Brown Street  
 CITY: San Diego  
 STATE: California  
 COUNTRY: USA  
 ZIP: 92101 2-26  
 COMPUTER READABLE FORM:  
 METHOD TYPE: Diskette  
 COMPUTER: IBM compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTA Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US 09/223,305  
 FILING DATE: April 4, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/603,704  
 FILING DATE: April 10, 1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/745,206  
 FILING DATE: 15-AUG-1991  
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/603,704  
 FILING DATE: 20 NOV 1988  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/603,701  
 FILING DATE: 04 APR 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/603,702  
 FILING DATE: 04 APR 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: W. P. 0559,01178  
 FILING DATE: 04 APR 1989  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/176,899  
 FILING DATE: 04 APR 1988  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Soliman, Stephanie L.  
 REGISTRATION NUMBER: 42,279  
 REFERENCE/INVENTOR NUMBER: 62516 (P519779)  
 TELEPHONE: (+1) 214 39 0999  
 TELEFAX: (+1) 214 39 0962  
 INFORMATION FOR SEQ. 2: 26 19  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2161 am no acid  
 TYPE: amino acid  
 STRANDEDNESS: S 0116  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 FRAGMENT TYPE: internal  
 US-08-223-3050-51

Query Match 74.6% Score 337 PB 21 Length 2161  
 Best Local Similarity 82.4% Pctid No: 40-02  
 Matches 5: Conservative 0: Mismatches 1: Indels 0: Gaps 0:

QY 1 CDEPXD 6  
 DB 1421 CDEPXD 1426

RESULT 16  
 US-08-223-3050-52  
 Sequence 2, Application US/082233050  
 Patent No. 5876958  
 GENERAL INFORMATION:  
 APPLICANT: Harpold, Michael  
 APPLICANT: Ellis, Steven  
 APPLICANT: Williams, Mark  
 APPLICANT: Polkman, Daniel  
 APPLICANT: Moore, Ann  
 TITLE OF INVENTION: HUMAN CHANNEL CHANNEL PROTECTIONS AND  
 TITLE OF INVENTION: METHODS  
 NUMBER OF SEQUENCES: 57  
 CORRESPONDENCE ADDRESS:  
 ADDRESS: Brown, Martin, Haller & McLean  
 STREET: 1640 Brown Street  
 CITY: San Diego  
 STATE: California  
 COUNTRY: USA  
 ZIP: 92101 2-26  
 COMPUTER READABLE FORM:  
 METHOD TYPE: Diskette  
 COMPUTER: IBM compatible  
 OPERATING SYSTEM: DOS  
 SOFTWARE: FASTA Version 1.5  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US 09/223,305  
 FILING DATE: April 4, 1994  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 07/603,704  
 FILING DATE: April 10, 1992  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 07/745,206  
 FILING DATE: 15-AUG-1991  
 PRIOR APPLICATION DATA:

```

1  A SOURCE/AGENT INFORMATION:
2  NAME: STEPHEN STEPHANO L.
3  IDENTIFICATION NUMBER: 65776
4  REFERENCE NUMBER: 65776-415030
5  INFORMATION IN INFORMATION:
6  IDENTIFICATION: 65776-65776
7  REFERENCE: 65776-65776
8  INFORMATION IN INFORMATION:
9  IDENTIFICATION: 65776-65776
10 IDENTIFICATION: 65776-65776
11 IDENTIFICATION: 65776-65776
12 IDENTIFICATION: 65776-65776
13 IDENTIFICATION: 65776-65776
14 IDENTIFICATION: 65776-65776
15 IDENTIFICATION: 65776-65776
16 IDENTIFICATION: 65776-65776
17 IDENTIFICATION: 65776-65776
18 IDENTIFICATION: 65776-65776
19 IDENTIFICATION: 65776-65776
20 IDENTIFICATION: 65776-65776
21 IDENTIFICATION: 65776-65776
22 IDENTIFICATION: 65776-65776
23 IDENTIFICATION: 65776-65776
24 IDENTIFICATION: 65776-65776
25 IDENTIFICATION: 65776-65776
26 IDENTIFICATION: 65776-65776
27 IDENTIFICATION: 65776-65776
28 IDENTIFICATION: 65776-65776
29 IDENTIFICATION: 65776-65776
30 IDENTIFICATION: 65776-65776
31 IDENTIFICATION: 65776-65776
32 IDENTIFICATION: 65776-65776
33 IDENTIFICATION: 65776-65776
34 IDENTIFICATION: 65776-65776
35 IDENTIFICATION: 65776-65776
36 IDENTIFICATION: 65776-65776
37 IDENTIFICATION: 65776-65776
38 IDENTIFICATION: 65776-65776
39 IDENTIFICATION: 65776-65776
40 IDENTIFICATION: 65776-65776
41 IDENTIFICATION: 65776-65776
42 IDENTIFICATION: 65776-65776
43 IDENTIFICATION: 65776-65776
44 IDENTIFICATION: 65776-65776
45 IDENTIFICATION: 65776-65776
46 IDENTIFICATION: 65776-65776
47 IDENTIFICATION: 65776-65776
48 IDENTIFICATION: 65776-65776
49 IDENTIFICATION: 65776-65776
50 IDENTIFICATION: 65776-65776
51 IDENTIFICATION: 65776-65776
52 IDENTIFICATION: 65776-65776
53 IDENTIFICATION: 65776-65776
54 IDENTIFICATION: 65776-65776
55 IDENTIFICATION: 65776-65776
56 IDENTIFICATION: 65776-65776
57 IDENTIFICATION: 65776-65776
58 IDENTIFICATION: 65776-65776
59 IDENTIFICATION: 65776-65776
60 IDENTIFICATION: 65776-65776
61 IDENTIFICATION: 65776-65776
62 IDENTIFICATION: 65776-65776
63 IDENTIFICATION: 65776-65776
64 IDENTIFICATION: 65776-65776
65 IDENTIFICATION: 65776-65776
66 IDENTIFICATION: 65776-65776
67 IDENTIFICATION: 65776-65776
68 IDENTIFICATION: 65776-65776
69 IDENTIFICATION: 65776-65776
70 IDENTIFICATION: 65776-65776
71 IDENTIFICATION: 65776-65776
72 IDENTIFICATION: 65776-65776
73 IDENTIFICATION: 65776-65776
74 IDENTIFICATION: 65776-65776
75 IDENTIFICATION: 65776-65776
76 IDENTIFICATION: 65776-65776
77 IDENTIFICATION: 65776-65776
78 IDENTIFICATION: 65776-65776
79 IDENTIFICATION: 65776-65776
80 IDENTIFICATION: 65776-65776
81 IDENTIFICATION: 65776-65776
82 IDENTIFICATION: 65776-65776
83 IDENTIFICATION: 65776-65776
84 IDENTIFICATION: 65776-65776
85 IDENTIFICATION: 65776-65776
86 IDENTIFICATION: 65776-65776
87 IDENTIFICATION: 65776-65776
88 IDENTIFICATION: 65776-65776
89 IDENTIFICATION: 65776-65776
90 IDENTIFICATION: 65776-65776
91 IDENTIFICATION: 65776-65776
92 IDENTIFICATION: 65776-65776
93 IDENTIFICATION: 65776-65776
94 IDENTIFICATION: 65776-65776
95 IDENTIFICATION: 65776-65776
96 IDENTIFICATION: 65776-65776
97 IDENTIFICATION: 65776-65776
98 IDENTIFICATION: 65776-65776
99 IDENTIFICATION: 65776-65776
100 IDENTIFICATION: 65776-65776

```





